

### **Amendments to the Claims**

**This listing of claims will replace all prior versions, and listings, of claims in the application:**

#### **Listing of Claims:**

1. (Currently amended) A data processing device, comprising:

~~a master controller,~~

a first functional unit for performing one or more operations having a relatively long latency, the first functional unit including a slave controller,

a second functional unit for performing one or more operations having a relatively short latency, and

a common memory means shared by the first and second functional units, and

~~the data processing device being programmed a master controller for controlling a~~  
schedule for executing an instruction by the first functional unit, the execution of said instruction involving including input/output operations that are performed by the slave controller of the first functional unit,

wherein said ~~execution involves~~ master controller synchronizes at least one of:  
output data of the first functional unit ~~being processed~~ by the second functional unit during the execution of said instruction; and the input data to the first functional unit being generated by the second functional unit during the execution of said instruction.

2. (Canceled)

3. (Currently amended) The data processing device according to claim 1, having further comprising halt means controllable by the master controller for suspending operation of the first functional unit.

4. (Currently amended) A method of operating a data processing device, comprising:

~~— a master controller for controlling operation of the data processing device,~~

a first functional unit, which includes a slave controller, the first functional unit being arranged for executing ~~instructions of a first type corresponding to operations having a~~ relatively long latency,

a second functional unit capable of executing ~~instructions of a second type corresponding to operations having a relatively short latency, and~~

~~wherein the first functional unit~~ a master controller to control a schedule for executing an instruction by the slave controller, during execution of ~~an the~~ instruction of the ~~first type the first functional unit~~ receives input data and provides output data, and wherein said execution involves master controller synchronizes at least one of: output data of the first functional unit being processed by the second functional unit during the execution of said instruction; and the input data to the first functional unit being generated by the second functional unit during the execution of said instruction.

5. (Currently amended) The method according to claim 4, ~~wherein~~ further comprising an act  
of the master controller temporarily suspends ~~suspending~~ operation of the first functional  
unit during execution of ~~instructions of the first type~~ the instruction.